Cimolodonta

The **Cimolodonta** are a taxon of extinct mammals that lived from the Cretaceous to the Eocene. They were some of the more derived members of the extinct order Multituberculata. They probably lived something of a rodent-like existence until their ecological niche was assumed by true rodents. The more basal multituberculates are found in a different suborder, "Plagiaulacida".

Cimolodonta is apparently a natural (monophyletic) suborder. Remains have been identified from across the Northern Hemisphere. The taxon is recognized as the informal Paracimexomys group and the superfamilies Djadochtatherioidea, Taeniolabidoidea, and Ptilodontoidea. Additionally, and of uncertain affinities, are the families Cimolomyidae, Boffiidae, Eucosmodontidae, Kogaionidae, Microcosmodontidae and the two genera *Uzbekbaatar* and *Viridomys*. More precise placement of these types awaits further discoveries and analysis.

Cimolodonta

Temporal range: Aptian-Eocene

125–35 Ma

Pre€ € O S D C P T J K PgN

A reconstruction of *Ptilodus*

Scientific classification	
Kingdom:	Animalia
Phylum:	Chordata
Class:	Mammalia
Order:	†Multituberculata
Suborder:	†Cimolodonta

Superfamilies

- Paracimexomys group
- Djadochtatherioidea
- Ptilodontoidea
- Taeniolabidoidea
  - Other families
- Boffiidae
- Cimolomyidae
- Eucosmodontidae
- Kogaionidae
- Microcosmodontidae

Taxonomy

Suborder **†Cimolodonta** McKenna, 1975

- Superfamily *Incertae sedis*
  - Family *Incertae sedis*
    - Subfamily *Incertae sedis*
      - Genus? *Ameribaatar* Eaton & Cifelli, 2001
      - Genus? *Bryceomys* Eaton, 1995
      - Genus *Cedaromys* Eaton & Cifelli, 2001
      - Genus? *Dakotamys* Eaton, 1995; (Early Cretaceous, Central North America)
      - Genus? *Fractinus* Higgins, 2003
      - Genus *Halodon* Marsh, 1889
      - Genus *Ptilodus* (Marsh, 1889) Gidley, 1909
      - Genus? *Uzbekbaatar* Kielan-Jaworowska & Nesov, 1992
      - Genus? *Barbatodon* Rădulescu & Samson, 1986
- "Paracimexomys group" Archibald, 1982
  - Genus *Paracimexomys* Archibald, 1982
  - Genus? *Cimexomys* Fox, 1971
  - Genus *Cimexomys* Sloan & Van Valen, 1965 sensu stricto?

- Family Boffiidae Hahn & Hahn, 1983
  - Genus *Boffius* Vianey-Liaud, 1979
- Family Cimolomyidae Marsh, 1889 sensu Kielan-Jaworowska & Hurum, 2001
  - Genus *Essonodon* Simpson, 1927
  - Genus *Buginbaatar* Kielan-Jaworowska & Sochava, 1969
  - Genus *Meniscoessus* Cope, 1882 (syn. *Dipriodon* Marsh, 1889, *Tripriodon* Marsh, 1889, *Selenacodon* Marsh, 1889, *Halodon* Marsh, 1889, *Oracodon* Marsh, 1889)
  - Genus *Cimolomys* Marsh, 1889 (syn. ?*Allacodon* Marsh, 1889; *Meniscoessus*; *Ptilodus*; *Selenacodon* Marsh, 1889)
- Superfamily Ptilodontoidea Cope, 1887 sensu McKenna & Bell, 1997 & Kielan-Jaworowska & Hurum, 2001
  - Family Cimolodontidae Marsh, 1889 sensu Kielan-Jaworowska & Hurum, 2001
    - Genus *Liotomus* Lemoine, 1882
    - Genus *Essonodon* Simpson, 1927
    - Genus *Anconodon* Jepsen, 1940
    - Genus *Cimolodon* Marsh, 1889 [syn. *Nanomys* Marsh, 1889, *Nonomyops* Marsh, 1892]
    - Genus *Neoliotomus* Jepsen, 1930
  - Family Ptilodontidae Cope, 1887 (syn Ptilodontinae Cope, 1887 sensu McKenna & Bell, 1997)
    - Genus *Kimbetohia* Simpson, 1936
    - Genus *Ptilodus* Cope, 1881 (*Chirox* Cope, 1884)
    - Genus *Baiotomeus* Krause, 1987
    - Genus *Prochetodon* Jepsen, 1940
  - Family Neoplagiaulacidae Ameghino, 1890 (syn Neoplagiaulacinae Ameghino, 1890 sensu McKenna & Bell, 1997)
    - Genus *Mesodma* Marsh, 1889
    - Genus *Ectypodus* Matthew & Cranger, 1921 (Syn. *Charlesmooria* Kühne, 1969)
    - Genus *Mimetodon* Jepsen, 1940
    - Genus *Neoplagiaulax* Lemoine, 1882
    - Genus *Parectypodus* Jepsen, 1930
    - Genus *Cernaysia* Vianey-Liaud, 1986
    - Genus *Krauseia* Vianey-Liaud, 1986
    - Genus *Xyronomys* Rigby, 1980
    - Genus *Xanclomys* Rigby, 1980
    - Genus *Mesodmops* Tong & Wang, 1994
  - Family Kogaionidae Rădulescu & Samson, 1996
    - Genus *Barbatodon* Rădulescu & Samson, 1996
    - Genus *Hainina* Vianey-Liaud, 1979
    - Genus *Kogaionon* Rădulescu & Samson, 1996
  - Family Eucosmodontidae Jepsen, 1940 sensu Kielan-Jaworowska & Hurum, 2001 (syn. Eucosmodontinae Jepsen, 1940 sensu McKenna & Bell, 1997)
    - Genus *Clemensodon* Krause, 1992
    - Genus *Eucosmodon* Matthew & Granger, 1921
    - Genus *Stygimys* Sloan & Van Valen, 1965

- Family Microcosmodontidae Holtzman & Wolberg, 1977 (syn Microcosmodontinae Holtzman & Wolberg, 1977 McKenna & Bell, 1997)
  - Genus *Pentacosmodon* Jepsen, 1940
  - Genus *Acheronodon* Archibald, 1982
  - Genus *Microcosmodon* Jepsen, 1930
- Superfamily Djadochtatherioidea Kielan-Jaworowska & Hurum, 1997 sensu Kielan-Jaworowska & Hurum, 2001 (syn Djadochtatheria Kielan-Jaworowska & Hurum, 1997)
  - Genus? *Bulganbaatar* Kielan-Jaworowska, 1974
  - Genus? *Chulsanbaatar* Kielan-Jaworowska, 1974
  - Genus *Nemegtbaatar* Kielan-Jaworowska, 1974
  - Family Sloanbaataridae Kielan-Jaworowska, 1974
    - Genus *Kamptobaatar* Kielan-Jaworowska, 1970
    - Genus *Nessovbaatar* Kielan-Jaworowska & Hurum, 1997
    - Genus *Sloanbaatar* Kielan-Jaworowska, 1974
  - Family Djadochtatheriidae Kielan-Jaworowska & Hurum, 1997
    - Genus *Djadochtatherium* Simpson, 1925
    - Genus *Catopsbaatar* Kielan-Jaworowska, 1974
    - Genus *Tombaatar* Kielan-Jaworowska, 1974
    - Genus *Kryptobaatar* Kielan-Jaworowska, 1970 (syn *Gobibaatar* Kielan-Jaworowska, 1970, *Tugrigbaatar* Kielan-Jaworowska & Dashzeveg, 1978)
- Superfamily Taeniolabidoidea Granger & Simpson, 1929 sensu Kielan-Jaworowska & Hurum, 2001
  - Genus *Prionessus* Matthew & Granger, 1925
  - Family Taeniolabididae Granger & Simpson, 1929
    - Genus *Kimbetopsalis* Sarah, 2015
    - Genus *Taeniolabis* Cope, 1882
  - Family Lambdopsalidae
    - Genus *Sphenopsalis* Matthew, Granger & Simpson, 1928
    - Genus *Lambdopsalis* Chow & Qi, 1978

References

- Kielan-Jaworowska Z. and Hurum J.H. (2001), "Phylogeny and Systematics of multituberculate mammals". *Paleontology* **44**, p. 389-429.
- Much of this information has been derived from [1] (http://home.arcor.de/ktdykes/multis.htm) Multituberculata Cope, 1884.

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